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	<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L23	L21 and l3	14
<input type="checkbox"/>	L22	l2 and L21	2
<input type="checkbox"/>	L21	l15 and L20	54
<input type="checkbox"/>	L20	l10 and L19	597
<input type="checkbox"/>	L19	l11 and L18	3121
<input checked="" type="checkbox"/>	L18	L2 or l3 or l4	13451
<input type="checkbox"/>	L17	L16 not l5	3
<input type="checkbox"/>	L16	l2 and L15	4
<input checked="" type="checkbox"/>	L15	504.clas.	16581
<input type="checkbox"/>	L14	l2 same L13	18
<input type="checkbox"/>	L13	pesticid\$9 or insecticid\$9 or herbicid\$9 or acaricid\$9 or nematicid\$9 or nematocid\$9 or fungicid\$9 or antifung\$9 or algicid\$9 or algaecid\$9 or antialga\$9	240783
<input checked="" type="checkbox"/>	L12	"pres mud"	2
<input type="checkbox"/>	L11	vermicompost or peat or (rice husk) or vermiculite or cellulos\$4 or perlite or polyvinylpyrrolidone or (polyvinyl pyrrolidone) or talc	572979
<input checked="" type="checkbox"/>	L10	fertili\$9	116408
<input type="checkbox"/>	L9	L7 not l6	14
<input checked="" type="checkbox"/>	L8	L6 not l5	1
<input type="checkbox"/>	L7	L2 and l4	16
<input checked="" type="checkbox"/>	L6	L2 and l3	3
<input type="checkbox"/>	L5	l2 and l3 and L4	2
<input type="checkbox"/>	L4	garlic or (alium same sativum)	10754
<input checked="" type="checkbox"/>	L3	neem or azadirachta	1064
<input type="checkbox"/>	L2	urin\$5 with l1	1718
<input type="checkbox"/>	L1	cow\$1 or cattle or bovine\$1	190061

END OF SEARCH HISTORY

Handbook of Plants with Pest-Control Properties

Michael Grainge and Saleem Ahmed

SCIENTIFIC LIBRARY

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II. Description of the Plant and Its Pest-Control Ingredients

Some important characteristics of the plants and of their pest-control properties are indicated in a horizontal format under the headings A-O. Not all information was available in many cases; corresponding headings are then excluded. Conversely, multiple listings of certain headings denote multiple characteristics. Thus, for example, the first plant, *Abelmoschus esculentus*, does not have headings E, F, G, K, and L, but has four listings under M, 3 under N, and 2 under O. The following codes are used under the headings A-O.

Plant Characteristics

A Plant Life Cycle

1 = perennial 2 = biennial 3 = annual 4 = other

B Type of Plant

1 = tree 5 = creeper 9 = aquatic/semiaquatic plant
2 = shrub, subshrub 6 = herb 10 = parasitic/epiphytic plant
3 = woody climber 7 = woody herb
4 = herbaceous vine 8 = cactus

C Plant Classification

1 = fungus 4 = moss 7 = cycad
2 = alga 5 = early vascular 8 = conifer
3 = liverwort 6 = fern 9 = flowering plant

D Climate in Which Plant Is Commonly Found

1 = tropical 5 = arid 9 = hotlands
2 = subtropical 6 = Mediterranean 10 = cosmopolitan
3 = temperate 7 = arctic/subarctic (1 + 2 + 3 categories)
4 = semiarid 8 = alpine

E Problem Soils to Which Plant Is Adaptable

1 = acid sulfate soils 5 = calcareous soils 9 = rocky areas
2 = other acid soils 6 = other alkaline soils 10 = waterlogged areas
3 = sodic soils 7 = sandy soils 11 = peat/bog/marshy areas
4 = saline soils 8 = heavy clays 12 = infertile soils

Description of the Active Materials

F Effective Life

Consideration

1 = material breaks down in sunlight 2 = plant has seasonal activity

Duration for Which Activity Is Maintained in the Field

3 = >2 months 5 = 2 weeks 7 = 2-3 days
4 = 1 month 6 = 1 week 8 = 1 day or less

Duration for Which Activity Is Maintained in Storage

9 = >1 year 12 = 2-7 weeks 15 = <24 hours
10 = 6-11 months 13 = 4-13 days
11 = 2-5 months 14 = 1-3 days

G Maximum Dilution of the Active Principle for Effectiveness

1 = 1:2 4 = 1:100 7 = 1:100,000
2 = 1:5 5 = 1:1,000
3 = 1:10 6 = 1:10,000

H Type of Pest-Control Activity Observed

We have retained descriptors used by the authors, although sometimes these are vague (for example, antivermin). The "anti" category (for example, anti-insect, antimite) has also been used when the mode of action was not defined. An X after a descriptor (for example, No. 12 below) indicates that the pest controlled is an animal pest. No. 20 includes antimicrobial action when the microbes controlled are not defined.

1 = anti-insect	12 = antimite-X	25 = rodenticidal
2 = insecticidal	13 = antitick	25a = rodent repellent
2a = contact poison	14 = antifungal	26 = antifertility
2b = stomach poison	15 = antifungal-X	(rodents)
3 = growth inhibitor	16 = antinematode	27 = antivermin
4 = antifeedant	17 = antinematode-X	28 = antisnail/leech
5 = repellent	18 = antibacterial	29 = pest-free
6 = attractant	19 = antibacterial-X	30 = synergistic
6a = trap crop	20 = antibiotic/anti-septic/antimicrobial	31 = adjuvant
7 = chemosterilant	21 = antiviral	32 = fish poison
8 = termite resistant	22 = antiviral-X	33 = poisonous
9 = insectivorous	23 = herbicidal	34 = anaesthetic/sedative
10 = sticky trap	24 = allelopathic	35 = narcotic
11 = antimite		

I Plant Part(s) Used/Responsible for the Pest-Control Activity

1 = whole plant	8 = flowers	15 = shoots/buds/tops
2 = roots/tubers/rhizomes	9 = fruit/fruiting body	16 = aerial parts
3 = bulbs/corms	10 = seeds/nuts/spores	17 = trichomes
4 = bark	11 = pods	18 = oilcake/residue
5 = wood/pulp	12 = oil	19 = tissue culture
6 = stem/branches	13 = gum/resin	20 = crop residue
7 = leaves	14 = sap/latex/juice	

Method of Preparation/Extraction of the Pest-Control Material**J a Nonchemical Preparation**

1 = no preparation needed	4 = powdering of the plant part
2 = drying of the plant part	5 = tapping for sap/latex
3 = aqueous extraction	6 = pressing/distilling for oil
3a = crude extraction, using village facilities	

J b Chemical Extraction; Solvent Used

7 = ether	11 = petroleum ether	15 = kerosene
8 = alcohol	12 = methanol	16 = chloroform
9 = ethanol	13 = benzene	17 = ethyl acetate
10 = acetone	14 = ethyl ether	

Method of Application of the Pest-Control Material**K Method of Use**

1 = merely planting	6 = spraying the preparation
2 = mixing with bait	7 = fumigating/burning the plant part
3 = surface spreading	8 = rubbing the material on the plant
4 = using as mulch	9 = mixing with stored produce
5 = dusting on the crop	

Environmental Conditions in Use**L Cautions in Use**

- | | |
|---|-----------------------------------|
| 1 = material is toxic to honeybees | 4 = material is a contact poison |
| 2 = material is toxic to grazing cattle | 5 = the plant is a potential weed |
| 3 = material is an oral poison | |

Additional Economic Value of the Plant**M Other Plant Uses/Sources**

- | | |
|---|---------------------------------------|
| 1 = as food/drink for humans | 14 = used as a spice/flavoring |
| 1a = is edible after cooking | 15 = for soap making/as a soap |
| 2 = as animal food substitute | 16 = is a source of dye/ink |
| 3 = provides fiber | 17 = is a source of perfume/incense |
| 4 = provides materials to make tools | 18 = is a source of honeybee nectar |
| 5 = provides medicine/drugs | 19 = for wood carving/in carpentry |
| 6 = is a source of fuel/light | 20 = in paints/varnish |
| 7 = as a wind break | 21 = is a source of tannin |
| 8 = as a sand-binder | 22 = is a source of paper |
| 9 = for erosion control as a cover crop | 23 = is a source of beads for jewelry |
| 10 = as a fertilizer | 24 = used in weaving |
| 11 = for soil reclamation | 25 = is a source of wood preservative |
| 12 = fixes N ₂ | 26 = is a source of rubber |
| 13 = is an ornamental plant | 27 = is a source of sulfur |
| | 28 = is a source of cooking oil/fat |

N Plant Parts Used for Food by Humans (same codes as I above)

O Plant Parts Used for Medicine/Drugs (same codes as I above)

III. Organisms Controlled (OC)

Under the heading OC we have listed alphabetically pests that are reportedly controlled by the plant. Because of their specific nature, the type of pest-control activity (code H) and plant part(s) responsible for the pest-control action (code I) are listed against each pest here rather than being listed in the horizontal format described above. Reference(s) for each entry are then listed in parentheses.

IV. Other References (OR)

Listed here (in parentheses) are references that do not name any specific pest but describe some pest-control properties of the plant under consideration (under codes H and I).

V. Active Principles (AP)

The following codes describe the active principles found in the plants:

- | | |
|------------------|---------------------|
| Alk = alkaloids | Sfr = sulfur |
| Cou = coumarinds | Str = steroids |
| Fla = flavanoids | Tan = tannins |
| Sap = saponins | Tri = triterpenoids |

The plant part in which these compounds are found is indicated using Code I, followed by references (in parentheses).

Helminthosporium sp. H-14, I-7 (480)
Ixodes redikorzevi H-13, I-14 (87, 1133)
Myrothecium verrucaria H-14, I-12 (185)
Phyllobius oblongus H-4, I-7 (480)
Phytodecta fornicata H-4, I-7 (480)
Pieris napi H-5, I-? (1002)
Pieris rapae H-5, I-? (1002)
Rhipicephalus rossicus H-13, I-14 (87, 1133)
 OR: H-19, I-3, 7 (497, 672, 704, 879, 880, 1166); H-20, I-12, 14 (504, 530); H-24, I-14 (569)
 AP: Sfr-I-3 (1116); Tan-I-3 (1321)

Allium cernuum (Wild onion) Amaryllidaceae

B C D J M N
 06 09 03 3a 01 03

OC: *Agrobacterium tumefaciens* H-18, I-7 (585) *Erwinia carotovora* H-18, I-7 (585)

Allium fistulosum (Spanish onion) Amaryllidaceae

A B C D M N
 01 06 09 03 01 07

OC: Aphids H-1, I-1 (1241)

OR: H-19, I-? (172)

Allium nipponicum (Not known) Amaryllidaceae

B C D J M N
 06 09 03 03 01 01

OC: *Drosophila hydei* H-2, I-2, 4, 7, 8 (101)

Allium oleraceum (Field garlic) Amaryllidaceae

B C D M
 06 09 03 14

OC: *Locusta oleraceae* H-4, 5; I-7 (596)

Allium sativum (Garlic) Amaryllidaceae

A B C D F G J J J J J K K M M N N
 01 06 09 10 14 03 03 04 06 09 12 05 06 01 05 03 07

OC: *Aedes aegypti* H-1, I-? (325)
Aedes nigromaculis H-1, I-? (325)
Aedes sierrensis H-1, I-1 (325)
Aedes triseriatus H-1, I-? (325)
Agrobacterium tumefaciens H-18, I-3 (1357)
Alternaria tenuis H-14, I-7 (182, 426, 480, 783, 927)
Aspergillus niger H-14, I-? (385, 783)
Botrytis allii H-14, I-3, 12 (185, 426)
Callosobruchus chinensis H-2b, I-3 (116); H-5, I-? (599)
Cephalosporium sacchari H-14, I-? (927)
Ceratocystis ulmi H-14, I-? (426)
Cercospora cruenta H-14, I-3 (1122)
Cladosporium cucumerinum H-14, I-? (425)
Cladosporium fulvum H-14, I-12, 14 (185, 426)
Claviceps purpurea H-14, I-12, 14 (185, 426)
Colletotrichum capsici H-14, I-? (783)
Colletotrichum circinans H-14, I-14 (935)
Colletotrichum lindemuthianum H-14, I-12 (425, 935)
Colletotrichum trifolii H-14, I-14 (935)
Corynebacterium flaccumfaciens H-18, I-3 (1357)
Corynebacterium michiganense H-18, I-3 (1081, 1357)
Culex peus H-1, I-? (325)
Culex quinquefasciatus H-1, I-? (1046)
Culex tarsalis H-1, I-? (325)
Curvularia lunata H-14, I-7 (182, 385, 927)
Curvularia perniseti H-14, I-7 (480)
Dermacentor marginatus H-13, I-? (1133)
Diplodia maydis H-14, I-? (426)
Drechslera graminea H-14, I-7 (182, 778, 927)

Drechslera oryzae H-14, I-3, 7, 8
 (113, 432, 783)
Dysdercus cingulatus H-1, I-?
 (88, 124, 435)
Erwinia aroideae H-18, I-? (1082)
Erwinia carotovora H-18, I-3 (1357)
Fusarium culmorum H-14, I-? (385)
Fusarium graminearum H-14, I-12 (935)
Fusarium moniliforme H-14, I-? (385, 783)
Fusarium nivale H-14, I-? (182, 927)
Fusarium oxysporum H-14, I-? (783)
Fusarium oxysporum
 f. sp. *conglutinans* H-14, I-? (426)
 f. sp. *lycopersici* H-14, I-? (426)
 f. sp. *udum* H-14, I-? (783)
Fusarium poae H-14, I-? (385)
Fusarium sp. H-14, I-? (1166)
Gibberella fujikuroi H-14, I-? (426)
Glomerella cingulata H-14, I-? (783)
Haemaphysalis punctata H-13, I-? (87, 1133)
Helminthosporium sp. H-14, I-7 (480)
Ixodes redikorzevi H-13, I-? (87, 1133)
Lentinus lepideus H-14, I-? (428)
Lenzites trabea H-14, I-? (428)
Meloidogyne incognita H-16, I-3 (100, 616)
Meloidogyne javanica H-16, I-3 (100, 616)
Monilinia fructicola H-14, I-? (425)
Mosquitoes H-2, I-? (55)
Musca domestica H-1, 5, I-1 (123, 889, 890)
 OR: H-3, I-? (441); H-17, I-12 (166, 220); H-19, I-3, 10, 12, 14 (186, 399, 497, 659, 660, 672, 704, 755, 761, 980, 982, 1080, 1166, 1167, 1168, 1291); H-20, I-? (530)
 AP: Alk, Sap, Tan=I-3 (1321)

Allium schoenoprasum (Chive) Amaryllidaceae
 A B C D J M N
 01 06 09 03 03 01 07
 OC: Mosquitoes H-2, I-1 (98, 105)
 OR: H-19, I-? (448)
 AP: Alk=I-10 (1369); Sfr=I-10 (1116)

Allium tricoccum (Wild leek) Amaryllidaceae
 B C D M N
 06 09 03 01 03
 OC: *Agrobacterium tumefaciens* H-18, I-7 (585) *Erwinia carotovora* H-18, I-7 (585)
 AP: Alk=I-2 (1392)

Allium tuberosum (Chinese chive) Amaryllidaceae
 A B C D M M N O
 01 06 09 01 01 05 07 10
 OC: Aphids H-1, I-1 (1241) Spider mites H-11, I-1 (1241)
 Phytophthora infestans H-14, I-1 (1241)

Alnus firma (Alder genus) Betulaceae
 A B B C D D J M
 01 01 02 09 02 03 03 13
 OC: *Drosophila hydei* H-2, I-2 (101)

Avena sativa (Oats) Poaceae

A B D J J M N
 03 06 03 10 12 01 10

OC: *Alternaria solani* H-14, I-2 (1021)
Bipolaris sorokiniana H-14, I-2 (1021)
Ceratocystis ulmi H-14, I-2 (1021)
Colletotrichum pisi H-14, I-2 (1021)
Oilex quinquefasciatus H-2, I-10 (463)
Fusarium solani

f. sp. phaseoli H-14, I-16 (362)

OR: H-19, I-2 (1021); H-24, I-7 (1228)

AP: Alk=I-7 (hordenine)(1392); Alk=I-10 (ergothioneine, trigonelline)(1392)

Meloidogyne incognita H-16, I-? (354)

Meloidogyne sp. H-16, I-20 (424)

Mosquitoes H-2, I-10 (101)

Ophiobolus graminis H-14, I-2 (1021)

Pythium irregulare H-14, I-2 (1021)

Rhizoctonia solani H-14, I-? (353)

Verticillium albo-atrum H-14, I-2 (1021)

Averrhoa bilimbi (Cucumber tree) Oxalidaceae

A B C D F G J M M M M N O
 01 01 09 01 13 03 03 01 05 14 15 09 07

OC: *Drechslera oryzae* H-14, I-7 (113)

AP: Tri=I-7 (1390)

Azadirachta indica (Neem tree) Meliaceae

A B C D D E F F G J J J J K K M M M M M O
 01 01 09 01 02 02 03 07 07 02 04 07 08 03 04 02 04 05 06 07 07
 06 09 10 11 15

OC: *Acalymma vittata* H-4, 5, I-? (168, 469)

Achaea janata H-4, I-? (168)

Acrida exatana H-4, I-? (168)

Agrotis ipsilon H-4, I-? (168)

Aleurothrixus floccosus H-4, I-? (168);
 H-5, I-? (469)

Alternaria tenuis H-14, I-? (539)

Amsacta moorei H-1, I-? (123, 505);
 H-4, I-7 (87)

Antestiopsis orbitalis bechuana H-1, I-7
 (852); H-3, I-10 (168)

Antestiopsis sp. H-1, I-? (725)

Anthrenus flavipes H-4, I-? (168)

Antigastra catalaunalis H-1, I-? (468)

Aonidiella aurantii H-4, I-? (168, 1139);
 H-5, I-? (469)

Aonidiella citrina H-4, I-? (168, 1139);
 H-5, I-? (469)

Aphelenchus avenae H-16, I-18 (100)

Aphids H-1, I-? (89)

Aphis gossypii H-1, I-? (116)

Aphis mellifera H-4, I-? (63)

Argyrotaenia velutinana H-4, I-? (63);
 H-5, I-? (469)

Atherigona soccata H-1, I-? (342)

Aulacophora foveicollis H-4, I-? (168)

Boarmia selenaria H-1, I-? (345)

Callosobruchus chinensis H-3, I-10 (95,
 124, 475, 516, 520, 1279); H-5, I-? (599)

Callosobruchus maculatus H-4, I-?
 (168, 604, 878)

Carpophilus hemipterus H-5, I-10 (87, 469)

Chirida bipunctata H-1, I-? (124, 966)

Chrotogonus trachypterus H-4, I-? (168)

Chrotoicetes terminifera H-4, I-? (168)

Cnaphalocrocis medinalis H-1, I-? (51);
 H-3, I-10 (134); H-4, I-10 (166)

Cockroaches H-2, I-? (1343)

Colletotrichum atramentarium H-14, I-?
 (923)

Conotrachelus nenuphar H-4, 5, I-?
 (63, 469)

Corcyra cephalonica H-4, I-? (95, 1687)

Crocidolomia binotalis H-1, I-12
 (124, 1333)

Cryptolestes pusillus H-4, I-? (168)

Culex fatigans H-1, I-? (1279); H-2, I-12
 (1267); H-4, I-? (63)

Diabrotica undecimpunctata H-4, 5, I-?
 (63, 469)

Diacrisia obliqua H-4, I-? (168)

Ditylenchus cypei H-16, I-18 (100)

Dysdercus cingulatus H-7, I-? (119, 692)

Dysdercus suturellus H-4, I-? (168)

Earias insulana H-4, I-? (168, 346, 348)

Ephestia cautella H-4, I-? (168)

Epilachna varivestis H-4, I-? (168)

Euproctis fraterna H-1, I-? (124)

Euproctis laniata H-4, I-? (168)

Euproctis lunata H-4, I-? (365)

Fusarium oxysporum

f. sp. lycopersici H-14, I-18 (539, 541)

- Fusarium* sp. H-14, I-? (923)
Galleria mellonella H-4, I-? (168)
 Grasshoppers H-5, I-9 (148)
Helicotylenchus erythrinae H-16, I-18 (541, 923)
Helicotylenchus indicus H-16, I-4, 7, 8, 9, 13, 18, (793, 1123, 1335)
Heliothis amigera H-1, I-? (124)
Heliothis virescens H-4, I-? (168)
Hellula rogatalis H-1, I-? (350)
Hirschmanniella oryzae H-16, I-18 (1335)
Holotrichia consanguinea H-6, I-7 (606)
Holotrichia insularis H-6, I-7 (606)
Holotrichia serrata H-6, I-7 (606)
Hoplolaimus indicus H-16, I-4, 7, 8, 9, 13, 18 (100, 168, 538, 539, 541, 793, 923, 1123, 1335)
Indarbela quadrinotata H-4, I-? (168)
Lasioderma serricorne H-4, I-? (168)
Laspeyresia pomonella H-4, 5, I-? (63, 469)
Latheticus oryzae H-4, I-? (168)
Leptinotarsa decemlineata H-4, I-? (168)
Leucinodes orbonalis H-1, I-? (93, 126)
Lirionyma sativae H-1, I-10 (1337)
Lirionyma trifolii H-1, I-10, 12 (1334)
Locusta migratoria H-1, I-? (878); H-1, I-10 (87); H-4, 5, I-7 (596)
 Locusts H-1, I-? (866)
Lymantria dispar H-4, I-? (168)
Meloidogyne arenaria H-16, I-? (616); H-16, I-10 (1335)
Meloidogyne incognita H-16, I-2, 7, 18 (100, 168, 539, 541, 542, 616, 793, 923, 1349)
Meloidogyne javanica H-16, I-7, 18 (616, 922, 925, 962, 992, 1265, 1335)
Musca domestica H-1, I-? (520, 1094)
Myllocerus sp. H-1, I-? (93, 126)
Mythimna separata H-3, I-10 (1341)
Nematodes H-16, I-18 (1010, 1335)
Nephantis serinopa H-1, I-? (124)
Nephotettix virescens H-4, I-10, 12 (140, 141, 942, 1299, 1331, 1339)
Nilaparvata lugens H-1, I-7, 10, 12 (50, 93, 126, 1289, 1331); H-2a, 4, I-10, 12 (141); H-4, I-10, 12 (166, 1338)
Oncopeltus fasciatus H-3, I-? (130)
Ophiomyia reticulipennis H-1, I-? (126)
Orseolia oryzae H-4, I-? (63)
Oryzaephilus surinamensis H-1, I-? (1284)
Panonychus citri H-4, 5, 11, I-? (168, 469, 1139)
Paramyelois transitella H-4, I-? (63)
Parasaissetia nigra H-4, I-? (168)
Phyllocnistis citrella H-1, I-? (93, 126)
Phyllotreta downsei H-1, I-? (124)
Pieris brassicae H-3, I-10 (168)
Piesma quadratum H-3, I-? (168)
Planococcus citri H-4, I-? (63, 1139); H-5, I-? (469)
Plutella xylostella H-1, I-10 (124, 1336)
Poecilocera picta H-4, I-? (168)
Popillia japonica H-1, I-? (129); H-4, I-? (332); H-4, I-10 (1293)
Pratylenchus brachyurus H-16, I-? (168); H-16, I-7 (1273, 1335)
Pratylenchus delattrei H-16, I-? (93, 126)
Pratylenchus sp. H-16, I-10 (756)
Rhizoctonia solani H-14, I-? (541, 923); H-14, I-18 (539)
Rhizopertha dominica H-1, I-? (124, 126, 454, 461, 520, 601, 878); H-1, I-12 (1117, 1124); H-5, I-10 (87)
Rhopalosiphum nymphaeae H-1, I-? (168)
Rotylenchulus reniformis H-16, I-7, 10, 18 (168, 538, 539, 793, 923, 1269, 1335)
Saissetia nigra H-4, I-? (63)
Schistocerca gregaria H-1, I-? (167, 369, 434, 878, 1001, 1277, 1279); H-4, I-7, 10, 12 (151, 611, 614, 615, 756, 1266, 1268, 1272); H-5, I-2, 5, 7, 10 (87, 611, 615, 1270, 1272)
Sclerotium rolfsii H-14, I-10 (1300)
Sitophilus oryzae H-3, 5, I-10 (87, 124, 126, 517, 601, 878, 888, 1279)
Sitotroga cerealella H-1, I-7, 10 (88, 121, 124)
Sogatella furcifera H-2a, I-10, 12 (141)
Spodoptera frugiperda H-4, I-? (130, 1095)
Spodoptera littoralis H-1, I-? (348)
Spodoptera litura H-4, I-? (123, 124, 343, 348, 440, 1095, 1288); H-5, I-10 (347)
Stegobium paniceum H-4, I-? (168)
 Stored grain pests H-1, I-? (89); H-5, I-7, 9, 10 (148)
 Stored rice pests H-1, I-7 (119)
Tribolium castaneum H-4, I-? (168); H-5, I-10 (517)
Tribolium confusum H-4, I-? (168)
Trogoderma granarium H-1, I-? (454, 601, 878); H-4, I-? (168); H-5, I-10 (87, 167)
Tryporyza incertulas H-1, I-? (93)
 Tungro virus of rice H-21, I-10, 12 (140, 141, 942, 1299, 1331, 1339)
Tylenchorhynchus brassicae H-16, I-10, 18 (100, 168, 538, 539, 617, 793, 923, 1335)
Tylenchorhynchus elegans H-16, I-18 (1335)
Tylenchus filiformis H-16, I-4, 7, 8, 9, 18 (538, 793, 1123)
Urentius echinus H-4, I-? (63)
Urentius hystricellus H-4, I-? (168)
Utetheisa pulchella H-4, I-? (168)

OR: H-1, I-7, 9, 10 (50, 73, 80, 84, 88, 132, 420, 504, 1326); H-2, 4, I-7, 9 (107, 117, 220);
 H-2a, 5, I-7 (116); H-2b, 4, 5, I-7, 10 (128); H-3, I-7, 10 (122); H-3, 4, I-? (1093);
 H-3, 4, I-7, 8, 10 (132); H-4, I-10 (123, 124); H-5, I-7, 9, 10 (126, 220, 504); H-5,
 16, 20, I-7, 10 (136); H-20, I-7 (420, 504); H-22, I-? (1287)
 AP: Tri-I-10 (azadirachtin, meliantriol, salannin)(168)

 Azolla sp. (Water fern) Salviniaceae

B C D D J M
 09 06 01 02 01 10

OC: Mosquitoes H-1, I-1 (472)

 Baccharis coridifolia (Not known) Asteraceae

A B C J
 01 02 09 03

OC: Attagenus piceus H-4, I-6, 7, 8 (48)

AP: Alk-I-? (baccharine)(1392)

 Baccharis floribunda (Not known) Asteraceae

A B C J
 01 02 09 11

OC: Attagenus piceus H-4, I-2 (48)

Tineola bisselliella H-4, I-2 (48)

OR: H-2, I-? (105)

 Baccharis glutinosa (Water willow) Asteraceae

A B C J M
 01 02 09 03 09

OC: Blattella germanica H-2a, I-7 (48)

OR: H-32, I-6, 7 (401)

 Baccharis halimifolia (Consumption weed) Asteraceae

A B C D J
 01 02 09 03 03

OC: Pseudomonas solanacearum H-18, I-8, 16 (945)

OR: H-15, 19, I-7 (651)

AP: Alk-I-6, 7 (1392)

 Baccharis ramulosa (Escobilla) Asteraceae

A B C D
 01 02 09 01

OC: Spodoptera frugiperda H-1, I-1 (176)

 Backhousia myrtifolia (Grey myrtle) Myrtaceae

A C D M
 01 09 01 04

OC: Aedes sp. H-2, 5, I-12 (101)

Anopheles sp. H-2, 5, I-12 (101)

OR: H-30, I-12 (101)

 Baeckea frutescens (Bruere de Tonkin) Myrtaceae

A B C D M M
 01 02 09 01 15 17

OC: Ants H-1, I-6, 7 (1241)

Gryllotalpa sp. H-1, I-6, 7 (1241)

Cnaphalocrocis medinalis H-1, I-6, 7 (1241)